

REPORTED TO Cherry Ridge Management
37 Hollingsworth Rd
Cherryville, BC V0E 2G2

TEL 1-250-547-9091
FAX -

ATTENTION Melanie Staker

WORK ORDER 3070880

PO NUMBER

RECEIVED / TEMP Jul-15-13 09:05 / 14.0 °C

PROJECT Creek Monitoring

REPORTED Jul-22-13

PROJECT INFO

COC NUMBER B11784

General Comments:

CARO Analytical Services employs methods which are conducted according to procedures accepted by appropriate regulatory agencies, and/or are conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts, except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the Chain of Custody or Sample Requisition document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.



Issued By:

Jennifer Shanko, ASCT
Administration Coordinator, Kelowna

Please contact CARO if more information is needed or to provide feedback on our services.

Locations:

#110 4011 Viking Way
Richmond, BC V6V 2K9
Tel: 604-279-1499 Fax: 604-279-1599

#102 3677 Highway 97N
Kelowna, BC V1X 5C3
Tel: 250-765-9646 Fax: 250-765-3893

17225 109 Avenue
Edmonton, AB T5S 1H7
Tel: 780-489-9100 Fax: 780-489-9700

www.caro.ca

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Analysis Description	Method Reference (* = modified from)		Location
	Preparation	Analysis	
Chloride in Water by IC	N/A	APHA 4110 B	Kelowna
Conductivity in Water	N/A	APHA 2510 B	Kelowna
E. coli (Partition Method)	N/A	APHA 9222 G	Kelowna
Fluoride in Water by IC	N/A	APHA 4110 B	Kelowna
Hardness as CaCO3 (CALC)	N/A	APHA 2340 B	Richmond
Nitrate-N in Water by IC	N/A	APHA 4110 B	Kelowna
Nitrite-N in Water by IC	N/A	APHA 4110 B	Kelowna
pH in Water	N/A	APHA 4500-H+ B	Kelowna
Phosphorus, Total Dissolved Kjeldahl	N/A	EPA 365.4 (1974) *	Kelowna
Phosphorus, Total Kjeldahl	N/A	EPA 365.4 (1974) *	Kelowna
Sulfate in Water by IC	N/A	APHA 4110 B	Kelowna
Total Kjeldahl Nitrogen	N/A	EPA 351.2 (1993) *	Kelowna
Total Recoverable Metals	APHA 3030E *	APHA 3125 B	Richmond
Turbidity	N/A	APHA 2130 B	Kelowna

Note: The numbers in brackets represent the year that the method was published/approved

Method Reference Descriptions:

APHA Standard Methods for the Examination of Water and Wastewater, American Public Health Association
EPA United States Environmental Protection Agency Test Methods

Glossary of Terms:

MRL Method Reporting Limit
< Less than the Reported Detection Limit (RDL) - the RDL may be higher than the MRL due to various factors such as dilutions, limited sample volume, high moisture, or interferences
AO Aesthetic objective
MAC Maximum acceptable concentration (health-related guideline)
CFU/100mL Colony Forming Units per 100 mL
mg/L Milligrams per litre
NTU Nephelometric Turbidity Units
pH units pH < 7 = acidic, pH > 7 = basic
uS/cm Microsiemens per centimeter

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Analyte	Result / Recovery	Canadian DW Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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Anions

Sample ID: North Fork Cherry Creek (3070880-01) [Water] Sampled: Jul-14-13 17:02

Chloride	< 0.10	AO ≤ 250	0.10	mg/L	N/A	Jul-15-13	
Nitrogen, Nitrate as N	< 0.010	MAC = 10	0.010	mg/L	N/A	Jul-15-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Jul-15-13	
Sulfate	8.1	AO ≤ 500	1.0	mg/L	N/A	Jul-15-13	

Sample ID: South Fork Cherry Creek (3070880-02) [Water] Sampled: Jul-14-13 16:10

Chloride	1.15	AO ≤ 250	0.10	mg/L	N/A	Jul-16-13	
Nitrogen, Nitrate as N	0.019	MAC = 10	0.010	mg/L	N/A	Jul-16-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Jul-16-13	
Sulfate	11.1	AO ≤ 500	1.0	mg/L	N/A	Jul-16-13	

Sample ID: Cherry Creek (at Hall) (3070880-03) [Water] Sampled: Jul-14-13 16:32

Chloride	1.12	AO ≤ 250	0.10	mg/L	N/A	Jul-16-13	
Nitrogen, Nitrate as N	< 0.010	MAC = 10	0.010	mg/L	N/A	Jul-16-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Jul-16-13	
Sulfate	11.3	AO ≤ 500	1.0	mg/L	N/A	Jul-16-13	

Sample ID: Shuswap River (Picnic Site) (3070880-04) [Water] Sampled: Jul-14-13 09:50

Chloride	0.33	AO ≤ 250	0.10	mg/L	N/A	Jul-16-13	
Nitrogen, Nitrate as N	< 0.010	MAC = 10	0.010	mg/L	N/A	Jul-16-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Jul-16-13	
Sulfate	4.7	AO ≤ 500	1.0	mg/L	N/A	Jul-16-13	

Sample ID: Ferry Creek (3070880-05) [Water] Sampled: Jul-14-13 10:12

Chloride	0.57	AO ≤ 250	0.10	mg/L	N/A	Jul-16-13	
Nitrogen, Nitrate as N	< 0.010	MAC = 10	0.010	mg/L	N/A	Jul-16-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Jul-16-13	
Sulfate	16.6	AO ≤ 500	1.0	mg/L	N/A	Jul-16-13	

General Parameters

Sample ID: North Fork Cherry Creek (3070880-01) [Water] Sampled: Jul-14-13 17:02

Conductivity (EC)	148		2	uS/cm	N/A	Jul-15-13	
Nitrogen, Total Kjeldahl	0.41		0.05	mg/L	Jul-15-13	Jul-16-13	
pH	7.98	AO = 6.5 - 8.5	0.01	pH units	N/A	Jul-15-13	
Phosphorus, Total Kjeldahl	0.02		0.01	mg/L	Jul-15-13	Jul-16-13	
Phosphorus, Total Kjeldahl Dissolved	< 0.01		0.01	mg/L	Jul-15-13	Jul-16-13	
Turbidity	1.0	See Guidelines	0.1	NTU	N/A	Jul-15-13	

Sample ID: South Fork Cherry Creek (3070880-02) [Water] Sampled: Jul-14-13 16:10

Conductivity (EC)	201		2	uS/cm	N/A	Jul-15-13	
Nitrogen, Total Kjeldahl	0.35		0.05	mg/L	Jul-15-13	Jul-16-13	
pH	8.11	AO = 6.5 - 8.5	0.01	pH units	N/A	Jul-15-13	
Phosphorus, Total Kjeldahl	0.06		0.01	mg/L	Jul-15-13	Jul-16-13	
Phosphorus, Total Kjeldahl Dissolved	< 0.01		0.01	mg/L	Jul-15-13	Jul-16-13	
Turbidity	6.9	See Guidelines	0.1	NTU	N/A	Jul-15-13	

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General Parameters, Continued

Sample ID: Cherry Creek (at Hall) (3070880-03) [Water] Sampled: Jul-14-13 16:32

Conductivity (EC)	205		2	uS/cm	N/A	Jul-15-13	
Nitrogen, Total Kjeldahl	0.17		0.05	mg/L	Jul-15-13	Jul-16-13	
pH	8.16	AO = 6.5 - 8.5	0.01	pH units	N/A	Jul-15-13	
Phosphorus, Total Kjeldahl	0.03		0.01	mg/L	Jul-15-13	Jul-16-13	
Phosphorus, Total Kjeldahl Dissolved	0.03		0.01	mg/L	Jul-15-13	Jul-16-13	
Turbidity	4.2	See Guidelines	0.1	NTU	N/A	Jul-15-13	

Sample ID: Shuswap River (Picnic Site) (3070880-04) [Water] Sampled: Jul-14-13 09:50

Conductivity (EC)	96		2	uS/cm	N/A	Jul-15-13	
Nitrogen, Total Kjeldahl	0.42		0.05	mg/L	Jul-15-13	Jul-16-13	
pH	7.85	AO = 6.5 - 8.5	0.01	pH units	N/A	Jul-15-13	
Phosphorus, Total Kjeldahl	0.15		0.01	mg/L	Jul-15-13	Jul-16-13	
Phosphorus, Total Kjeldahl Dissolved	0.04		0.01	mg/L	Jul-15-13	Jul-16-13	
Turbidity	1.5	See Guidelines	0.1	NTU	N/A	Jul-15-13	

Sample ID: Ferry Creek (3070880-05) [Water] Sampled: Jul-14-13 10:12

Conductivity (EC)	258		2	uS/cm	N/A	Jul-15-13	
Nitrogen, Total Kjeldahl	0.34		0.05	mg/L	Jul-15-13	Jul-16-13	
pH	8.23	AO = 6.5 - 8.5	0.01	pH units	N/A	Jul-15-13	
Phosphorus, Total Kjeldahl	0.03		0.01	mg/L	Jul-15-13	Jul-16-13	
Phosphorus, Total Kjeldahl Dissolved	0.03		0.01	mg/L	Jul-15-13	Jul-16-13	
Turbidity	0.4	See Guidelines	0.1	NTU	N/A	Jul-15-13	

Calculated Parameters

Sample ID: North Fork Cherry Creek (3070880-01) [Water] Sampled: Jul-14-13 17:02

Hardness, Total (Total as CaCO3)	67.9		5.0	mg/L	N/A	N/A	
Nitrogen, Nitrate+Nitrite as N	< 0.010		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.409		0.050	mg/L	N/A	N/A	

Sample ID: South Fork Cherry Creek (3070880-02) [Water] Sampled: Jul-14-13 16:10

Hardness, Total (Total as CaCO3)	98.6		5.0	mg/L	N/A	N/A	
Nitrogen, Nitrate+Nitrite as N	0.019		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.366		0.050	mg/L	N/A	N/A	

Sample ID: Cherry Creek (at Hall) (3070880-03) [Water] Sampled: Jul-14-13 16:32

Hardness, Total (Total as CaCO3)	99.6		5.0	mg/L	N/A	N/A	
Nitrogen, Nitrate+Nitrite as N	< 0.010		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.166		0.050	mg/L	N/A	N/A	

Sample ID: Shuswap River (Picnic Site) (3070880-04) [Water] Sampled: Jul-14-13 09:50

Hardness, Total (Total as CaCO3)	47.4		5.0	mg/L	N/A	N/A	
Nitrogen, Nitrate+Nitrite as N	< 0.010		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.420		0.050	mg/L	N/A	N/A	

Sample ID: Ferry Creek (3070880-05) [Water] Sampled: Jul-14-13 10:12

Hardness, Total (Total as CaCO3)	122		5.0	mg/L	N/A	N/A	
Nitrogen, Nitrate+Nitrite as N	< 0.010		0.010	mg/L	N/A	N/A	

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Calculated Parameters, Continued

Sample ID: Ferry Creek (3070880-05) [Water] Sampled: Jul-14-13 10:12, Continued

Nitrogen, Total	0.337		0.050	mg/L	N/A	N/A	
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Total Recoverable Metals

Sample ID: North Fork Cherry Creek (3070880-01) [Water] Sampled: Jul-14-13 17:02

Aluminum, total	0.10	AO ≤ 0.1	0.05	mg/L	Jul-16-13	Jul-18-13	
Antimony, total	< 0.001	MAC = 0.006	0.001	mg/L	Jul-16-13	Jul-18-13	
Arsenic, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-18-13	
Barium, total	< 0.05	MAC = 1	0.05	mg/L	Jul-16-13	Jul-18-13	
Beryllium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-18-13	
Bismuth, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-18-13	
Boron, total	< 0.04	MAC = 5	0.04	mg/L	Jul-16-13	Jul-18-13	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001	mg/L	Jul-16-13	Jul-18-13	
Calcium, total	23		2	mg/L	Jul-16-13	Jul-18-13	
Chromium, total	< 0.005	MAC = 0.05	0.005	mg/L	Jul-16-13	Jul-18-13	
Cobalt, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-18-13	
Copper, total	< 0.002	AO ≤ 1	0.002	mg/L	Jul-16-13	Jul-18-13	
Iron, total	0.1	AO ≤ 0.3	0.1	mg/L	Jul-16-13	Jul-18-13	
Lead, total	< 0.001	MAC = 0.01	0.001	mg/L	Jul-16-13	Jul-18-13	
Lithium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-18-13	
Magnesium, total	2.5		0.1	mg/L	Jul-16-13	Jul-18-13	
Manganese, total	0.005	AO ≤ 0.05	0.002	mg/L	Jul-16-13	Jul-18-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002	mg/L	Jul-16-13	Jul-18-13	
Molybdenum, total	0.002		0.001	mg/L	Jul-16-13	Jul-18-13	
Nickel, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-18-13	
Phosphorus, total	< 0.2		0.2	mg/L	Jul-16-13	Jul-18-13	
Potassium, total	0.8		0.2	mg/L	Jul-16-13	Jul-18-13	
Selenium, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-18-13	
Silicon, total	< 5		5	mg/L	Jul-16-13	Jul-18-13	
Silver, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-18-13	
Sodium, total	0.8	AO ≤ 200	0.2	mg/L	Jul-16-13	Jul-18-13	
Strontium, total	0.12		0.01	mg/L	Jul-16-13	Jul-18-13	
Sulfur, total	< 10		10	mg/L	Jul-16-13	Jul-18-13	
Tellurium, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-18-13	
Thallium, total	< 0.0002		0.0002	mg/L	Jul-16-13	Jul-18-13	
Thorium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-18-13	
Tin, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-18-13	
Titanium, total	< 0.05		0.05	mg/L	Jul-16-13	Jul-18-13	
Uranium, total	0.0004	MAC = 0.02	0.0002	mg/L	Jul-16-13	Jul-18-13	
Vanadium, total	< 0.01		0.01	mg/L	Jul-16-13	Jul-18-13	
Zinc, total	< 0.04	AO ≤ 5	0.04	mg/L	Jul-16-13	Jul-18-13	
Zirconium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-18-13	

Sample ID: South Fork Cherry Creek (3070880-02) [Water] Sampled: Jul-14-13 16:10

Aluminum, total	0.29	AO ≤ 0.1	0.05	mg/L	Jul-16-13	Jul-19-13	
Antimony, total	< 0.001	MAC = 0.006	0.001	mg/L	Jul-16-13	Jul-19-13	

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Total Recoverable Metals, Continued

Sample ID: South Fork Cherry Creek (3070880-02) [Water] Sampled: Jul-14-13 16:10, Continued

Arsenic, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-19-13	
Barium, total	< 0.05	MAC = 1	0.05	mg/L	Jul-16-13	Jul-19-13	
Beryllium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Bismuth, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Boron, total	< 0.04	MAC = 5	0.04	mg/L	Jul-16-13	Jul-19-13	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001	mg/L	Jul-16-13	Jul-19-13	
Calcium, total	33		2	mg/L	Jul-16-13	Jul-19-13	
Chromium, total	< 0.005	MAC = 0.05	0.005	mg/L	Jul-16-13	Jul-19-13	
Cobalt, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-19-13	
Copper, total	< 0.002	AO ≤ 1	0.002	mg/L	Jul-16-13	Jul-19-13	
Iron, total	0.4	AO ≤ 0.3	0.1	mg/L	Jul-16-13	Jul-19-13	
Lead, total	< 0.001	MAC = 0.01	0.001	mg/L	Jul-16-13	Jul-19-13	
Lithium, total	0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Magnesium, total	4.1		0.1	mg/L	Jul-16-13	Jul-19-13	
Manganese, total	0.012	AO ≤ 0.05	0.002	mg/L	Jul-16-13	Jul-19-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002	mg/L	Jul-16-13	Jul-19-13	
Molybdenum, total	0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Nickel, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Phosphorus, total	< 0.2		0.2	mg/L	Jul-16-13	Jul-19-13	
Potassium, total	0.5		0.2	mg/L	Jul-16-13	Jul-19-13	
Selenium, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-19-13	
Silicon, total	< 5		5	mg/L	Jul-16-13	Jul-19-13	
Silver, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-19-13	
Sodium, total	1.4	AO ≤ 200	0.2	mg/L	Jul-16-13	Jul-19-13	
Strontium, total	0.18		0.01	mg/L	Jul-16-13	Jul-19-13	
Sulfur, total	< 10		10	mg/L	Jul-16-13	Jul-19-13	
Tellurium, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Thallium, total	< 0.0002		0.0002	mg/L	Jul-16-13	Jul-19-13	
Thorium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Tin, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Titanium, total	< 0.05		0.05	mg/L	Jul-16-13	Jul-19-13	
Uranium, total	0.0004	MAC = 0.02	0.0002	mg/L	Jul-16-13	Jul-19-13	
Vanadium, total	< 0.01		0.01	mg/L	Jul-16-13	Jul-19-13	
Zinc, total	< 0.04	AO ≤ 5	0.04	mg/L	Jul-16-13	Jul-19-13	
Zirconium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	

Sample ID: Cherry Creek (at Hall) (3070880-03) [Water] Sampled: Jul-14-13 16:32

Aluminum, total	0.19	AO ≤ 0.1	0.05	mg/L	Jul-16-13	Jul-19-13	
Antimony, total	< 0.001	MAC = 0.006	0.001	mg/L	Jul-16-13	Jul-19-13	
Arsenic, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-19-13	
Barium, total	< 0.05	MAC = 1	0.05	mg/L	Jul-16-13	Jul-19-13	
Beryllium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Bismuth, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Boron, total	< 0.04	MAC = 5	0.04	mg/L	Jul-16-13	Jul-19-13	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001	mg/L	Jul-16-13	Jul-19-13	
Calcium, total	32		2	mg/L	Jul-16-13	Jul-19-13	

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Total Recoverable Metals, Continued

Sample ID: Cherry Creek (at Hall) (3070880-03) [Water] Sampled: Jul-14-13 16:32, Continued

Chromium, total	< 0.005	MAC = 0.05	0.005	mg/L	Jul-16-13	Jul-19-13	
Cobalt, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-19-13	
Copper, total	< 0.002	AO ≤ 1	0.002	mg/L	Jul-16-13	Jul-19-13	
Iron, total	0.3	AO ≤ 0.3	0.1	mg/L	Jul-16-13	Jul-19-13	
Lead, total	< 0.001	MAC = 0.01	0.001	mg/L	Jul-16-13	Jul-19-13	
Lithium, total	0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Magnesium, total	4.7		0.1	mg/L	Jul-16-13	Jul-19-13	
Manganese, total	0.009	AO ≤ 0.05	0.002	mg/L	Jul-16-13	Jul-19-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002	mg/L	Jul-16-13	Jul-19-13	
Molybdenum, total	0.002		0.001	mg/L	Jul-16-13	Jul-19-13	
Nickel, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Phosphorus, total	< 0.2		0.2	mg/L	Jul-16-13	Jul-19-13	
Potassium, total	0.8		0.2	mg/L	Jul-16-13	Jul-19-13	
Selenium, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-19-13	
Silicon, total	< 5		5	mg/L	Jul-16-13	Jul-19-13	
Silver, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-19-13	
Sodium, total	1.7	AO ≤ 200	0.2	mg/L	Jul-16-13	Jul-19-13	
Strontium, total	0.19		0.01	mg/L	Jul-16-13	Jul-19-13	
Sulfur, total	< 10		10	mg/L	Jul-16-13	Jul-19-13	
Tellurium, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Thallium, total	< 0.0002		0.0002	mg/L	Jul-16-13	Jul-19-13	
Thorium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Tin, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Titanium, total	< 0.05		0.05	mg/L	Jul-16-13	Jul-19-13	
Uranium, total	0.0004	MAC = 0.02	0.0002	mg/L	Jul-16-13	Jul-19-13	
Vanadium, total	< 0.01		0.01	mg/L	Jul-16-13	Jul-19-13	
Zinc, total	< 0.04	AO ≤ 5	0.04	mg/L	Jul-16-13	Jul-19-13	
Zirconium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	

Sample ID: Shuswap River (Picnic Site) (3070880-04) [Water] Sampled: Jul-14-13 09:50

Aluminum, total	0.08	AO ≤ 0.1	0.05	mg/L	Jul-16-13	Jul-19-13	
Antimony, total	< 0.001	MAC = 0.006	0.001	mg/L	Jul-16-13	Jul-19-13	
Arsenic, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-19-13	
Barium, total	< 0.05	MAC = 1	0.05	mg/L	Jul-16-13	Jul-19-13	
Beryllium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Bismuth, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Boron, total	< 0.04	MAC = 5	0.04	mg/L	Jul-16-13	Jul-19-13	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001	mg/L	Jul-16-13	Jul-19-13	
Calcium, total	16		2	mg/L	Jul-16-13	Jul-19-13	
Chromium, total	< 0.005	MAC = 0.05	0.005	mg/L	Jul-16-13	Jul-19-13	
Cobalt, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-19-13	
Copper, total	< 0.002	AO ≤ 1	0.002	mg/L	Jul-16-13	Jul-19-13	
Iron, total	0.1	AO ≤ 0.3	0.1	mg/L	Jul-16-13	Jul-19-13	
Lead, total	< 0.001	MAC = 0.01	0.001	mg/L	Jul-16-13	Jul-19-13	
Lithium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Magnesium, total	1.9		0.1	mg/L	Jul-16-13	Jul-19-13	

REPORTED TO PROJECT Cherry Ridge Management
Creek Monitoring

WORK ORDER REPORTED 3070880
Jul-22-13

Analyte	Result / Recovery	Canadian DW Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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Total Recoverable Metals, Continued

Sample ID: Shuswap River (Picnic Site) (3070880-04) [Water] Sampled: Jul-14-13 09:50, Continued

Manganese, total	0.006	AO ≤ 0.05	0.002	mg/L	Jul-16-13	Jul-19-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002	mg/L	Jul-16-13	Jul-19-13	
Molybdenum, total	0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Nickel, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Phosphorus, total	0.3		0.2	mg/L	Jul-16-13	Jul-19-13	
Potassium, total	0.7		0.2	mg/L	Jul-16-13	Jul-19-13	
Selenium, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-19-13	
Silicon, total	< 5		5	mg/L	Jul-16-13	Jul-19-13	
Silver, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-19-13	
Sodium, total	0.8	AO ≤ 200	0.2	mg/L	Jul-16-13	Jul-19-13	
Strontium, total	0.07		0.01	mg/L	Jul-16-13	Jul-19-13	
Sulfur, total	< 10		10	mg/L	Jul-16-13	Jul-19-13	
Tellurium, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Thallium, total	< 0.0002		0.0002	mg/L	Jul-16-13	Jul-19-13	
Thorium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Tin, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Titanium, total	< 0.05		0.05	mg/L	Jul-16-13	Jul-19-13	
Uranium, total	0.0003	MAC = 0.02	0.0002	mg/L	Jul-16-13	Jul-19-13	
Vanadium, total	< 0.01		0.01	mg/L	Jul-16-13	Jul-19-13	
Zinc, total	< 0.04	AO ≤ 5	0.04	mg/L	Jul-16-13	Jul-19-13	
Zirconium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	

Sample ID: Ferry Creek (3070880-05) [Water] Sampled: Jul-14-13 10:12

Aluminum, total	0.06	AO ≤ 0.1	0.05	mg/L	Jul-16-13	Jul-19-13	
Antimony, total	< 0.001	MAC = 0.006	0.001	mg/L	Jul-16-13	Jul-19-13	
Arsenic, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-19-13	
Barium, total	< 0.05	MAC = 1	0.05	mg/L	Jul-16-13	Jul-19-13	
Beryllium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Bismuth, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Boron, total	< 0.04	MAC = 5	0.04	mg/L	Jul-16-13	Jul-19-13	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001	mg/L	Jul-16-13	Jul-19-13	
Calcium, total	37		2	mg/L	Jul-16-13	Jul-19-13	
Chromium, total	< 0.005	MAC = 0.05	0.005	mg/L	Jul-16-13	Jul-19-13	
Cobalt, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-19-13	
Copper, total	< 0.002	AO ≤ 1	0.002	mg/L	Jul-16-13	Jul-19-13	
Iron, total	< 0.1	AO ≤ 0.3	0.1	mg/L	Jul-16-13	Jul-19-13	
Lead, total	< 0.001	MAC = 0.01	0.001	mg/L	Jul-16-13	Jul-19-13	
Lithium, total	0.003		0.001	mg/L	Jul-16-13	Jul-19-13	
Magnesium, total	7.3		0.1	mg/L	Jul-16-13	Jul-19-13	
Manganese, total	0.003	AO ≤ 0.05	0.002	mg/L	Jul-16-13	Jul-19-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002	mg/L	Jul-16-13	Jul-19-13	
Molybdenum, total	0.002		0.001	mg/L	Jul-16-13	Jul-19-13	
Nickel, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Phosphorus, total	< 0.2		0.2	mg/L	Jul-16-13	Jul-19-13	
Potassium, total	2.1		0.2	mg/L	Jul-16-13	Jul-19-13	
Selenium, total	< 0.005	MAC = 0.01	0.005	mg/L	Jul-16-13	Jul-19-13	

REPORTED TO PROJECT Cherry Ridge Management
Creek Monitoring

WORK ORDER REPORTED 3070880
Jul-22-13

Analyte	Result / Recovery	Canadian DW Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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Total Recoverable Metals, Continued

Sample ID: Ferry Creek (3070880-05) [Water] Sampled: Jul-14-13 10:12, Continued

Silicon, total	< 5		5	mg/L	Jul-16-13	Jul-19-13	
Silver, total	< 0.0005		0.0005	mg/L	Jul-16-13	Jul-19-13	
Sodium, total	4.1	AO ≤ 200	0.2	mg/L	Jul-16-13	Jul-19-13	
Strontium, total	0.20		0.01	mg/L	Jul-16-13	Jul-19-13	
Sulfur, total	< 10		10	mg/L	Jul-16-13	Jul-19-13	
Tellurium, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Thallium, total	< 0.0002		0.0002	mg/L	Jul-16-13	Jul-19-13	
Thorium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	
Tin, total	< 0.002		0.002	mg/L	Jul-16-13	Jul-19-13	
Titanium, total	< 0.05		0.05	mg/L	Jul-16-13	Jul-19-13	
Uranium, total	0.0007	MAC = 0.02	0.0002	mg/L	Jul-16-13	Jul-19-13	
Vanadium, total	< 0.01		0.01	mg/L	Jul-16-13	Jul-19-13	
Zinc, total	< 0.04	AO ≤ 5	0.04	mg/L	Jul-16-13	Jul-19-13	
Zirconium, total	< 0.001		0.001	mg/L	Jul-16-13	Jul-19-13	

Microbiological Parameters

Sample ID: North Fork Cherry Creek (3070880-01) [Water] Sampled: Jul-14-13 17:02

E. coli	3	MAC < 1	1	CFU/100mL	Jul-15-13	Jul-16-13	
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Sample ID: South Fork Cherry Creek (3070880-02) [Water] Sampled: Jul-14-13 16:10

E. coli	< 1	MAC < 1	1	CFU/100mL	Jul-15-13	Jul-16-13	
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Sample ID: Cherry Creek (at Hall) (3070880-03) [Water] Sampled: Jul-14-13 16:32

E. coli	1	MAC < 1	1	CFU/100mL	Jul-15-13	Jul-16-13	
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Sample ID: Shuswap River (Picnic Site) (3070880-04) [Water] Sampled: Jul-14-13 09:50

E. coli	< 1	MAC < 1	1	CFU/100mL	Jul-15-13	Jul-16-13	
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Sample ID: Ferry Creek (3070880-05) [Water] Sampled: Jul-14-13 10:12

E. coli	18	MAC < 1	1	CFU/100mL	Jul-15-13	Jul-16-13	
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